Volume 1, Issue 3

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Trade & Industry Times

A publication for Indiana's Career & Technical Educators

Indiana Department of Education College and Career Preparation

Of Interest

- Happenings
- Resource Links.
- Upcoming Events
- Student Opportunities
- Online Resources
- This year's IACTED Conference
- Career Pathways Update

Please submit suggested educational resource links and story items to Career Specialist Davis Moore at dmoore@doe.in.gov

Finding the Mathematics in Trade and Industry

While students were relaxing during summer vacation, some Career and Technical Education and Mathematics instructors were hard at work.

64 CTE and Math instructors participated in the Math-in-CTE Summer workshop July 12th-16th at the J Everett Light Career Center in Indianapolis, Indiana.

During the weeklong workshop instructors worked in 2 to 3 person teams to develop lesson plans that emphasized the mathematic components of CTE Courses.

CTE Instructors in the areas of Automotive Services, Building Trades, and Health Sciences teamed up with Math instructors to develop the lesson plans using the Math-in-CTE model, a methodology for curriculum integration created by the National Research Center for Career and Technical Education.

This is the second year for the program in Indiana. Outside of the five day Summer Workshop, the instructors will come back to revise the lessons they created during mini sessions in the Fall and Spring.

The goal of the program is to enable students to see mathematics principals in practical action. Workshop facilitator Phil Bedel says the lessons help fill the gap between what students are learning in math classes and CTE classes. "You'll find that a big part of this process is using common terminology. If you ask a student about the Pythagorean Theorem they may not know what you're talking about, however when you show them how it works and the role it plays in building trades they realize they use it all the time in that class, it's just a matter of connecting what they're already learning in math class to how they apply it in building trades." The CTE



Math-in-CTE summer professional development workshop wraps up.

instructors will begin teaching their developed lesson plans this semester. They will come back for review and revision sessions in the Fall and Spring. If you'd like to participate in next year's Math-in-CTE Workshop contact Davis Moore at

dmoore@doe.in.gov

Opportunities for Students



Nuts, Bolts, and Thingamajigs Foundation offers scholarships to students.

Nuts, Bolts and Thingamajigs Foundation Scholarships

Through its manufacturing summer camps and scholarships, NBT is inspiring the next generation of manufacturers, welders, plumbers, carpenters and more ... one tinkerer at a time. Find out how your students can attend and get other resources at http://

www.nutsandboltsfoundation.or g/Scholarships.cfm

Opportunity for Student with Solid Writing Skills

Indiana Ready Mixed Concrete
Association (IRMCA) Essay Contest is open to all high school students ages 16-18 at the beginning of the 2010-2011 school term. Entries must be postmarked by: November 8, 2010. IRMCA will submit names and addresses of all participants to colleges and universities for recruitment purposes. For more information visit

http://www.doe.in.gov/super/201 0/08August/082010/documents/ essay.pdf



Volume 1, Issue 1 Page 2



A State Farm representative looks over the work of some SkillsUSA students back in March. Your school can apply for a Good Neighbor Grant through October

Scholarship Opportunities

State Farm Grants

Good neighbor grants! State
Farm funds nonprofits and
schools for a wide range of activities including driving safety,
personal financial literacy, community revitalization, K-12
teacher development, servicelearning projects and economic
development. Don't miss out
on this exciting opportunity.
The deadline to apply is October
31, 2010. For more information
go to https://
your etatoform com/obout/

www.statefarm.com/about/ part_spos/grants/cogrants.asp

Grainger Tools for Tomorrow Scholarship Program

Since 2006, the Grainger Tools for Tomorrow® scholarship program has helped technical education students across the country realize their educational goals and prepare for the workforce. The scholarship recognizes outstanding students with a \$2,000 scholarship for their second year of schooling. Students earning their associates degree or certificate in an industrial trade use this financial assistance for tuition and books

at select community colleges across the country. Once these students successfully complete their technical education program they also receive a customized Westward® toolkit. The scholarships are given out through local community colleges so contact your local lvy Tech campus for more information.

If you know of any scholarship opportunities and you'd like to share them submit them via email to dmoore@doe.in.gov



Construct My Future Website offers resources for students and teachers in the construction industry.

Online Resource Links

Construct My Future

The Construct My Future web site presents a comprehensive link to information and materials for teachers, students, and parents about the construction industry. With resources for parents, students and teachers as well as grants, publications and scholarships, this resource is well worth looking into! http://www.constructmyfuture.

com

Architect 360 Website

On this Web site, students can design a house, walk through it in 3D, and then share it with the world. They can also learn more about architecture, past and present, and explore Frank Lloyd Wright's life OR Try the Design Studio Lite, where they can design a floor plan. You can find all of this online at

http://architectstudio3d.org/ AS3d/index.html



Architect 360 lets students design houses while they learn about architechture and design.



Teachers can get some of the supplies they need via the National Teacher Registry.

Information for Teachers

National Teacher Registry

The National Teacher Registry is a free service for schools and teachers that enables them to create a list of the items they need for their classrooms.

Teachers often buy supplies with their own money but there is a limit to what they can afford to purchase. The National Teacher Registry is a free service for teachers, parents

and/or other contributors. Products are sourced from national suppliers and discounters.

There is no markup. It is designed to allow teachers to let parents and others know about the supplies needed in the classroom. For more information visit the registry online at

http://www.nationalteacherregistry.com/

Professional Development

IUPUI School of Education, offers a variety of dynamic and convenient summer professional development opportunities for teachers. E-mail soeopd@iupui.edu for additional information.

If you have valuable information you think other teachers should know about. Tell us about it. Submit your ideas to dmoore@doe.in.gov

Volume 1, Issue 3 Page 3

Updates

Career Pathways Initia-

IDOE's Career Pathways initiative is in full swing. Secondary and postsecondary instructors, industry representatives, and IDOE Curriculum Specialists are finalizing aligned sequences of secondary and, in most cases, postsecondary courses that lead to an industry-recognized credential or technical certification, or an associates or baccalaureate degree at an accredited postsecondary institution, or a registered apprenticeship.

Pathway teams have identified

all of the dual credit courses in the 16 phase one subject areas.

The teams will begin developing additional pathways in Phase two of the project which begins in October.

The Career Pathways initiative is a three year project. During that time 40 career pathways will be developed.

The phase I pathways were presented to area Career and Technical Directors during the **IACTED Summer Conference.**

You can view the career pathways and curriculum frameworks at the website below. The IDOE will be talking about the developed pathways and the future of the program at this year's Indiana ACTE Fall Conference, September 24th and 25th at the Wyndham Hotel in Indianapolis (see the flyer on the next page for more information on this event).

http://www.doe.in.gov/pathway s/CareerPaths2010-PathwayPlans.html



Additional Resources/Upcoming Events

Technical Education Magazine

Technical Education Magazine encourages, enlightens and inspires educators in the Technical, Technology, Industrial, Vocational, and Pre-Engineering Fields. You can find teaching resources, national standards, and exciting and engaging activities and opportunities for your students. Check them out online at http:// www.techedmagazine.c om/home

Indiana ACTE Fall Conference

Mark your calendar for the Indiana ACTE Fall Conference. That happens September 24 and 25 at the Wyndham hotel in Indianapolis. The event is sponsored by Vincennes University. IDOE will be hosting sessions on Career Pathways and Academic Integration among other valuable workshops and training opportunities. Check out the flyer on the next page for the conference agenda and registration information.

Professional Development

The Wabash Valley Education Center offers a number of professional development courses presented year round. For more information visit them at http://www.esc5.k12.in.us/





Tidbits

New T & I website

Be sure to visit IDOE's College and Career Preparation Division's new Trade and Industry Education website. You can find course descriptions, standards, articles of interest, and much more. You can also submit resource and topic requests for The Trade and Industrial Times at the site. Check it out at http://www.doe.in.gov/octe/ trdind/index.html

Animated Engines

provides you with animated illustrations that show the inner workings of a variety of engines. Animated Engines features the inner workings of: Internal combustion engines, steam engines, Stirling engines And much more! These are great for illustrating the basic workings of engines. Visit the site below to find out more.

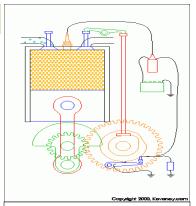
www.animatedengines.com/

Atomic Learning's FREE Video Storyboard

Pro is

designed to give teachers. students, and home movie makers a tool to plan ahead when creating video projects. You can access the free program at

http:// www.atomiclearning.com/k12/ en/storyboardpro



Example of the inner workings of an engine at animatedengines.com





2010 Indiana ACTE & ETEI State Conference



Career Pathways: A Journey To Success

September 24-25, 2010

Wyndham Hotel & Conference Center . Indianapolis, Indiana

Friday, September 24

8:30 a.m. Registration Opens

10:00 a.m. Opening Session & Keynote

Sponsored by ITT

11:00 a.m. Pathways Presentation

Department of Education

Noon Lunch (Provided)

Content Specific Sessions 1:00-5:00 p.m.

> **ETEI Sessions** Affilliate Sessions **General Sessions**

2:00-7:00 p.m. Vendors Open

5:00-7:00 p.m. President's Reception

Snacks/Drinks/Cash Bar

Saturday, September 25

6:30-8:30 a.m. **Breakfast - Hospitality Room**

Career Pathways Sessions 9:00 a.m.-Noon

> Sessions to Address All of the 2010 Pathways Program Content and Completion Expectations.

ETEI/Affiliate Sessions

Noon-1:30 p.m. IACTE Awards Lunch

ETEI Awards Lunch

Sponsored by Vincennes University

and Whitebox Learning

IACTE Delegate Assembly 1:30 p.m.

Mark Calendars & Make Plans Now To Attend The Fall Conference Sponsors/Events/Sessions/Activities Still Being Added & Finalized Pre-Conference Workshops & Programs TBA

Make Sure Instructors & Administrators Of CTE Programs Are Up To Date On The Career Pathways Initiatives

Special Thanks To:



ITT Technical Institute



Substitute Teacher Pay Reimbursement Available